Betofix RM

Fast repair mortar PCC (RM) for repairing concrete structures

Colour	Availability	
	Quantity per pallet	36
	Size / Quantity	**25 kg**
	Type of container	Paper bag
	Container code	25
	Art. no.	
grey	1092	■

Application rate

Approx. 1.2 kg/m²/mm layer thickness, or 1.2 kg/dm³

Range of use

- Concrete replacement according to
  - DIN EN 1504-3
  - Rili-SIB DAfStb 2001
- Concrete replacement for non-structurally relevant repairs
- Repair of pores, missing and broken out areas

Property profile

- Early strength
- Very low shrinkage
- Well suited to overhead working
- Can be applied by spatula and felted
- Freeze/thaw-resistant

Planning information

Betofix RM - Classification					
acc. to Rili-Sib 2001	M1				
acc. to DIN EN 1504-3	R1				
Old concrete classes	A2				
Reaction to fire	Class E				
Application					
Repair principles/procedures	3.1	3.2	3.3	7.1	7.2

Characteristic data of the product

Water requirement	Approx. 4.7 - 5.0 l/25 kg
Capillary water uptake	≤ 0.5 kg/(m²h$^{0.5}$)
Compressive strength	3 hours: approx. 3 N/mm² 24 hours: approx. 6 N/mm² 28 days: > 10 N/mm²
Surface tensile strength	> 0.8 N/mm²
Maximum grain size	0.5 mm
Bulk density of fresh mortar	Approx. 1.7 kg/dm³
Consistency of the mixture	For filling

The values stated represent typical characteristic data of the product and are not to be understood as bindin product specifications.

Possible system products

- S-Protect M (0919)
- Betofix NBM (1230)

Preparation

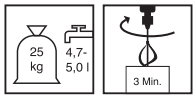
Substrate preparation

Concrete surface:
Stable, clean, dust-free
Observe the applicable technical regulations for the following parameters:
- Adhesive pull strength of the substrate
- Minimum roughness/roughness depth

Pre-wet the substrate so that it is slightly moist.

Reinforcement:
Degree of purity SA 2 ½ if applying corrosion protection, otherwise SA 2

Production of the mixture



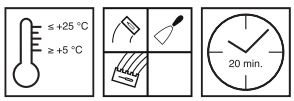
Mixing

Concrete replacement
Prepare water, add dry mortar and mix until homogeneous.

Mixing time: approx. 3 minutes

Corrosion protection:
Produce a homogeneous mixture:
1 part by weight S-Protect M : 2.5 parts by weight dry mortar.
Stir for at least 3 minutes.

Directions



Conditions for use

Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.
Low temperatures increase, while high temperatures decrease the working and setting time.
Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar.

Working time
(+20 °C): approx. 20 minutes

Layer thickness

Single layer 1.5 - 10 mm
Two layers < 20 mm, apply wet-on-wet
In broken-out areas < 100 mm

Applying corrosion protection:
Apply to layers of grout with a thickness of 1 mm each making sure the entire surface is covered.
Waiting time between layers: approx. 30 minutes.

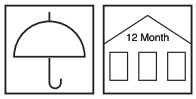
Subsequent processing
Protect fresh mortar surfaces from wind, direct sunlight, rain and/or frost for at least 3 days so that they do not dry too quickly.

Tools / Cleaning

Mixing tool, paintbrush, filling knife, trowel, smoothing trowel, sponge float, plasterer's float

Clean tools with water while the material is still fresh.

Storage / Shelf life



If stored in an unopened container and in a dry place, the product will keep for approx. 12 months.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

Declaration of conformity

CE

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CE 09 / UKCA 21

GBI P3-3

EN 1504-3: 2005

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PCC mortar for non structural repair for concrete

Compressive strength:	class R1
Chloride ion content:	≤ 0.05 %
Adhesive bond:	≥ 0.8 MPa
Carbonation resistance:	NPD
Elastic modulus:	NPD
Thermal compatibility:	≥ 0.8 MPa
Skid resistance:	NPD
Reaction to fire:	class E